



Appl'n No.: 08/963,656
Title: ANTIBODIES TO C-C...
Inventors: Craig J. Gerard, *et al.*
Replacement Sheet

SEQUENCE RANGE: 1 to 1689

			10				20				30				40			
	*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
AAT	CCT	TTT	CCT	GGC	ACC	TCT	GAT	ATC	CTT	TTG	AAA	TTC	ATG	TTA				
	50			60			70			80			90					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
AAG	AAT	CCC	TAG	GCT	GCT	ATC	ACA	TGT	GGC	ATC	TTT	GTT	GAG	TAC				
			100				110				120				130			
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ATG	AAT	AAA	TCA	ACT	GGT	GTG	TTT	TAC	GAA	GGA	TGA	TTA	TGC	TTC				
	140			150			160			170			180					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ATT	GTG	GGA	TTG	TAT	TTT	TCT	TCT	TCT	ATC	ACA	GGG	AGA	AGT	GAA				
			190				200			210			220					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ATG	ACA	ACC	TCA	CTA	GAT	ACA	GTT	GAG	ACC	TTT	GGT	ACC	ACA	TCC				
Met	Thr	Thr	Ser	Leu	Asp	Thr	Val	Glu	Thr	Phe	Gly	Thr	Thr	Ser				
	230			240			250			260			270					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
TAC	TAT	GAT	GAC	GTG	GGC	CTG	CTC	TGT	GAA	AAA	GCT	GAT	ACC	AGA				
Tyr	Tyr	Asp	Asp	Val	Gly	Leu	Leu	Cys	Glu	Lys	Ala	Asp	Thr	Arg				
			280				290			300			310					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
GCA	CTG	ATG	GCC	CAG	TTT	GTG	CCC	CCG	CTG	TAC	TCC	CTG	GTG	TTC				
Ala	Leu	Met	Ala	Gln	Phe	Val	Pro	Pro	Leu	Tyr	Ser	Leu	Val	Phe				
	320			330			340			350			360					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ACT	GTG	GGC	CTC	TTG	GGC	AAT	GTG	GTG	GTG	GTG	ATG	ATC	CTC	ATA				
Thr	Val	Gly	Leu	Leu	Gly	Asn	Val	Val	Val	Val	Met	Ile	Leu	Ile				
			370				380			390			400					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
AAA	TAC	AGG	AGG	CTC	CGA	ATT	ATG	ACC	AAC	ATC	TAC	CTG	CTC	AAC				
Lys	Tyr	Arg	Arg	Leu	Arg	Ile	Met	Thr	Asn	Ile	Tyr	Leu	Leu	Asn				
	410			420			430			440			450					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
CTG	GCC	ATT	TCG	GAC	CTG	CTC	TTC	CTC	GTC	ACC	CTT	CCA	TTC	TGG				
Leu	Ala	Ile	Ser	Asp	Leu	Leu	Phe	Leu	Val	Thr	Leu	Pro	Phe	Trp				
			460				470			480			490					
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ATC	CAC	TAT	GTC	AGG	GGG	CAT	AAC	TGG	GTT	TTT	GGC	CAT	GGC	ATG				
Ile	His	Tyr	Val	Arg	Gly	His	Asn	Trp	Val	Phe	Gly	His	Gly	Met				

Fig. 1A

500	510	520	530	540
* * *	* * *	* * *	* * *	* * *
TGT AAG CTC CTC TCA GGG TTT TAT CAC ACA GGC TTG TAC AGC GAG				
Cys Lys Leu Leu Ser Gly Phe Tyr His Thr Gly Leu Tyr Ser Glu				
550	560	570	580	
* * *	* * *	* * *	* * *	
ATC TTT TTC ATA ATC CTG CTG ACA ATC GAC AGG TAC CTG GCC ATT				
Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile				
590	600	610	620	630
* * *	* * *	* * *	* * *	* * *
GTC CAT GCT GTG TTT GCC CTT CGA GCC CGG ACT GTC ACT TTT GGT				
Val His Ala Val Phe Ala Leu Arg Ala Arg Thr Val Thr Phe Gly				
640	650	660	670	
* * *	* * *	* * *	* * *	
GTC ATC ACC AGC ATC GTC ACC TGG GGC CTG GCA GTG CTA GCA GCT				
Val Ile Thr Ser Ile Val Thr Trp Gly Leu Ala Val Leu Ala Ala				
680	690	700	710	720
* * *	* * *	* * *	* * *	* * *
CTT CCT GAA TTT ATC TTC TAT GAG ACT GAA GAG TTG TTT GAA GAG				
Leu Pro Glu Phe Ile Phe Tyr Glu Thr Glu Glu Leu Phe Glu Glu				
730	740	750	760	
* * *	* * *	* * *	* * *	
ACT CTT TGC AGT GCT CTT TAC CCA GAG GAT ACA GTA TAT AGC TGG				
Thr Leu Cys Ser Ala Leu Tyr Pro Glu Asp Thr Val Tyr Ser Trp				
770	780	790	800	810
* * *	* * *	* * *	* * *	* * *
AGG CAT TTC CAC ACT CTG AGA ATG ACC ATC TTC TGT CTC GTT CTC				
Arg His Phe His Thr Leu Arg Met Thr Ile Phe Cys Leu Val Leu				
820	830	840	850	
* * *	* * *	* * *	* * *	
CCT CTG CTC GTT ATG GCC ATC TGC TAC ACA GGA ATC ATC AAA ACG				
Pro Leu Leu Val Met Ala Ile Cys Tyr Thr Gly Ile Ile Lys Thr				
860	870	880	890	900
* * *	* * *	* * *	* * *	* * *
CTG CTG AGG TGC CCC AGT AAA AAA AAG TAC AAG GCC ATC CGG CTC				
Leu Leu Arg Cys Pro Ser Lys Lys Lys Tyr Lys Ala Ile Arg Leu				
910	920	930	940	
* * *	* * *	* * *	* * *	
ATT TTT GTC ATC ATG GCG GTG TTT TTC ATT TTC TGG ACA CCC TAC				
Ile Phe Val Ile Met Ala Val Phe Phe Ile Phe Trp Thr Pro Tyr				
950	960	970	980	990
* * *	* * *	* * *	* * *	* * *
AAT GTG GCT ATC CTT CTC TCT TCC TAT CAA TCC ATC TTA TTT GGA				
Asn Val Ala Ile Leu Leu Ser Ser Tyr Gln Ser Ile Leu Phe Gly				

			1000			1010			1020			1030			
	*		*	*		*	*	*	*	*	*	*	*	*	*
AAT	GAC	TGT	GAG	CGG	ACG	AAG	CAT	CTG	GAC	CTG	GTC	ATG	CTG	GTG	
Asn	Asp	Cys	Glu	Arg	Thr	Lys	His	Leu	Asp	Leu	Val	Met	Leu	Val	
		1040			1050			1060			1070			1080	
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ACA	GAG	GTG	ATC	GCC	TAC	TCC	CAC	TGC	TGC	ATG	AAC	CCG	GTG	ATC	
Thr	Glu	Val	Ile	Ala	Tyr	Ser	His	Cys	Cys	Met	Asn	Pro	Val	Ile	
		1090			1100			1110			1120				
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TAC	GCC	TTT	GTT	GGA	GAG	AGG	TTC	CGG	AAG	TAC	CTG	CGC	CAC	TTC	
Tyr	Ala	Phe	Val	Gly	Glu	Arg	Phe	Arg	Lys	Tyr	Leu	Arg	His	Phe	
	1130		1140		1150		1160		1170						
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TTC	CAC	AGG	CAC	TTG	CTC	ATG	CAC	CTG	GGC	AGA	TAC	ATC	CCA	TTC	
Phe	His	Arg	His	Leu	Leu	Met	His	Leu	Gly	Arg	Tyr	Ile	Pro	Phe	
		1180		1190		1200		1210							
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CTT	CCT	AGT	GAG	AAG	CTG	GAA	AGA	ACC	AGC	TCT	GTC	TCT	CCA	TCC	
Leu	Pro	Ser	Glu	Lys	Leu	Glu	Arg	Thr	Ser	Ser	Val	Ser	Pro	Ser	
	1220		1230		1240		1250		1260						
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ACA	GCA	GAG	CCG	GAA	CTC	TCT	ATT	GTG	TTT	TAG	GTA	GAT	GCA	GAA	
Thr	Ala	Glu	Pro	Glu	Leu	Ser	Ile	Val	Phe	***					
		1270		1280		1290		1300							
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AAT	TGC	CTA	AAG	AGG	AAG	GAC	CAA	GGA	GAT	NAA	GCA	AAC	ACA	TTA	
	1310		1320		1330		1340		1350						
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AGC	CTT	CCA	CAC	TCA	CCT	CTA	AAA	CAG	TCC	TTC	AAA	CCT	TCC	AGT	
		1360		1370		1380		1390							
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
GCA	ACA	CTG	AAG	CTC	TTA	AGA	CAC	TGA	AAT	ATA	CAC	ACA	GCA	GTA	
	1400		1410		1420		1430		1440						
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
GCA	GTA	GAT	GCA	TGT	ACC	CTA	AGG	TCA	TTA	CCA	CAG	GCC	AGG	GCT	
		1450		1460		1470		1480							
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
GGG	CAG	CGT	ACT	CAT	CAT	CAA	CCT	AAA	AAG	CAG	AGC	TTT	GCT	TCT	
	1490		1500		1510		1520		1530						
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CTC	TCT	AAA	ATG	AGT	TAC	CTA	TAT	TTT	AAT	GCA	CCT	GAA	TGT	TAG	

Fig. 10

	1540		1550		1560		1570							
*	*	*	*	*	*	*	*	*						
ATA	GTT	ACT	ATA	TGC	CGC	TAC	AAA	AAG	GTA	AAA	CTT	TTT	ATA	TTT
1580			1590			1600			1610				1620	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TAT	ACA	TTA	ACT	TCA	GCC	AGC	TAT	TAT	ATA	AAT	AAA	ACA	TTT	TCA
	1630		1640		1650		1660							
*	*	*	*	*	*	*	*	*						
CAC	AAT	ACA	ATA	AGT	TAA	CTA	TTT	TAT	TTT	CTA	ATG	TGC	CTA	GTT
1670			1680											
*	*	*	*	*	*	*	*	*						
CTT	TCC	CTG	CTT	AAT	GAA	AAG	CTT							

Fig. 1D

FIG. 2A

```

      10      20      30      40      50      60
      *      *      *      *      *      *      *
TTGTGCTTAT CCGGGCAAGA ACTTATCGAA ATACAATAGA AGACCCACGC GTCCGGTTTT

      70      80      90      100     110
      *      *      *      *      *      *      *
TACTTAGAAG AGATTTTCAG GGAGAAGTGA A ATG ACA ACC TCA CTA GAT ACA GTT
                               M  T  T  S  L  D  T  V>

      120     130     140     150     160
      *      *      *      *      *      *
GAG ACC TTT GGT ACC ACA TCC TAC TAT GAT GAC GTG GGC CTG CTC TGT
E  T  F  G  T  T  S  Y  Y  D  D  V  G  L  L  C>

      170     180     190     200     210
      *      *      *      *      *      *
GAA AAA GCT GAT ACC AGA GCA CTG ATG GCC CAG TTT GTG CCC CCG CTG
E  K  A  D  T  R  A  L  M  A  Q  F  V  P  P  L>

      220     230     240     250
      *      *      *      *      *      *
TAC TCC CTG GTG TTC ACT GTG GGC CTC TTG GGC AAT GTG GTG GTG GTG
Y  S  L  V  F  T  V  G  L  L  G  N  V  V  V  V>

260      270      280      290      300
      *      *      *      *      *      *
ATG ATC CTC ATA AAA TAC AGG AGG CTC CGA ATT ATG ACC AAC ATC TAC
M  I  L  I  K  Y  R  R  L  R  I  M  T  N  I  Y>

      310     320     330     340     350
      *      *      *      *      *      *
CTG CTC AAC CTG GCC ATT TCG GAC CTG CTC TTC CTC GTC ACC CTT CCA
L  L  N  L  A  I  S  D  L  L  F  L  V  T  L  P>

      360     370     380     390     400
      *      *      *      *      *      *
TTC TGG ATC CAC TAT GTC AGG GGG CAT AAC TGG GTT TTT GGC CAT GGC
F  W  I  H  Y  V  R  G  H  N  W  V  F  G  H  G>

      410     420     430     440     450
      *      *      *      *      *      *
ATG TGT AAG CTC CTC TCA GGG TTT TAT CAC ACA GGC TTG TAC AGC GAG
M  C  K  L  L  S  G  F  Y  H  T  G  L  Y  S  E>

      460     470     480     490
      *      *      *      *      *      *
ATC TTT TTC ATA ATC CTG CTG ACA ATC GAC AGG TAC CTG GCC ATT GTC
I  F  F  I  I  L  L  T  I  D  R  Y  L  A  I  V>

500      510      520      530      540
      *      *      *      *      *      *
CAT GCT GTG TTT GCC CTT CGA GCC CGG ACT GTC ACT TTT GGT GTC ATC
H  A  V  F  A  L  R  A  R  T  V  T  F  G  V  I>
```

FIG. 2B

```
550          560          570          580          590
*           *           *           *           *
ACC AGC ATC GTC ACC TGG GGC CTG GCA GTG CTA GCA GCT CTT CCT GAA
T   S   I   V   T   W   G   L   A   V   L   A   A   L   P   E>

        600          610          620          630          640
        *           *           *           *           *
TTT ATC TTC TAT GAG ACT GAA GAG TTG TTT GAA GAG ACT CTT TGC AGT
F   I   F   Y   E   T   E   E   L   F   E   E   T   L   C   S>

        650          660          670          680          690
*           *           *           *           *
GCT CTT TAC CCA GAG GAT ACA GTA TAT AGC TGG AGG CAT TTC CAC ACT
A   L   Y   P   E   D   T   V   Y   S   W   R   H   F   H   T>

        700          710          720          730
*           *           *           *           *
CTG AGA ATG ACC ATC TTC TGT CTC GTT CTC CCT CTG CTC GTT ATG GCC
L   R   M   T   I   F   C   L   V   L   P   L   L   V   M   A>

740          750          760          770          780
*           *           *           *           *
ATC TGC TAC ACA GGA ATC ATC AAA ACG CTG CTG AGG TGC CCC AGT AAA
I   C   Y   T   G   I   I   K   T   L   L   R   C   P   S   K>

790          800          810          820          830
*           *           *           *           *
AAA AAG TAC AAG GCC ATC CGG CTC ATT TTT GTC ATC ATG GCG GTG TTT
K   K   Y   K   A   I   R   L   I   F   V   I   M   A   V   F>

        840          850          860          870          880
*           *           *           *           *
TTC ATT TTC TGG ACA CCC TAC AAT GTG GCT ATC CTT CTC TCT TCC TAT
F   I   F   W   T   P   Y   N   V   A   I   L   L   S   S   Y>

        890          900          910          920          930
*           *           *           *           *
CAA TCC ATC TTA TTT GGA AAT GAC TGT GAG CGG AGC AAG CAT CTG GAC
Q   S   I   L   F   G   N   D   C   E   R   S   K   H   L   D>

        940          950          960          970
*           *           *           *           *
CTG GTC ATG CTG GTG ACA GAG GTG ATC GCC TAC TCC CAC TGC TGC ATG
L   V   M   L   V   T   E   V   I   A   Y   S   H   C   C   M>

980          990          1000          1010          1020
*           *           *           *           *
AAC CCG GTG ATC TAC GCC TTT GTT GGA GAG AGG TTC CGG AAG TAC CTG
N   P   V   I   Y   A   F   V   G   E   R   F   R   K   Y   L>

1030          1040          1050          1060          1070
*           *           *           *           *
CGC CAC TTC TTC CAC AGG CAC TTG CTC ATG CAC CTG GGC AGA TAC ATC
R   H   F   F   H   R   H   L   L   M   H   L   G   R   Y   I>
```

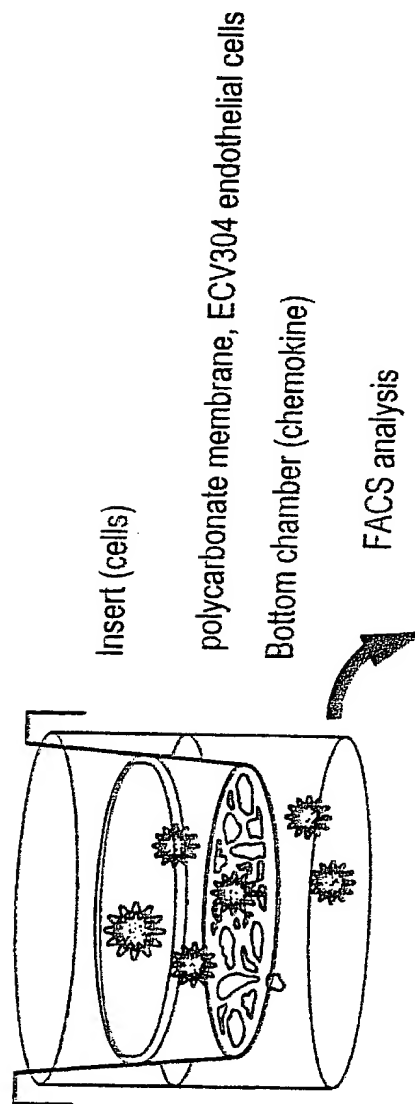
FIG. 2C

```
1080      1090      1100      1110      1120
  *        *        *        *        *
CCA TTC CTT CCT AGT GAG AAG CTG GAA AGA ACC AGC TCT GTC TCT CCA
P   F   L   P   S   E   K   L   E   R   T   S   S   V   S   P>

      1130      1140      1150      1160      1170
  *        *        *        *        *
TCC ACA GCA GAG CCG GAA CTC TCT ATT GTG TTT TAG G TAGATGCAGA
S   T   A   E   P   E   L   S   I   V   F   *>

      1180      1190
  *        *        *        *
AAATTGCCTA AAGAGGAAGG ACC
```

FIG. 3



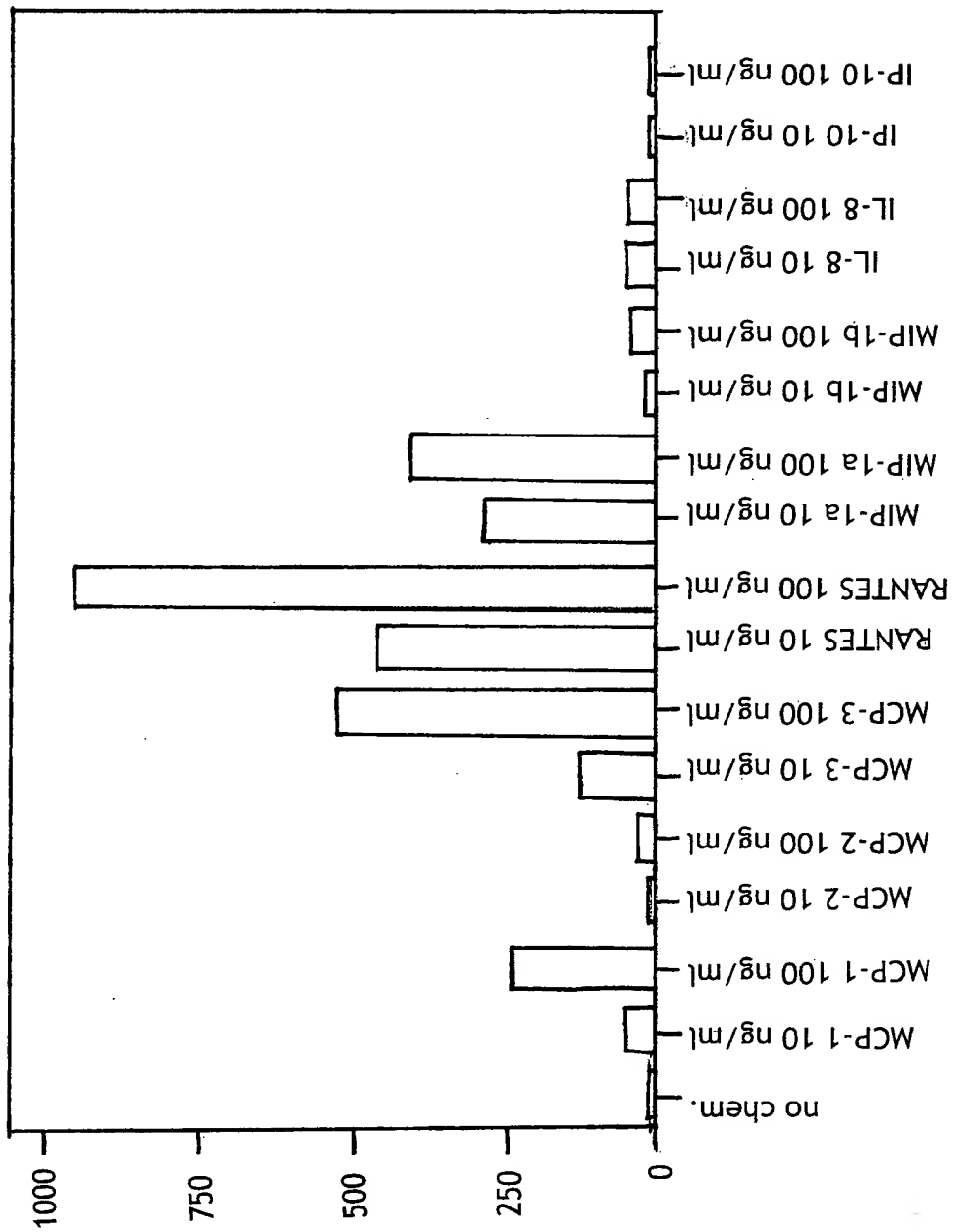


FIGURE 4

FIG. 5A

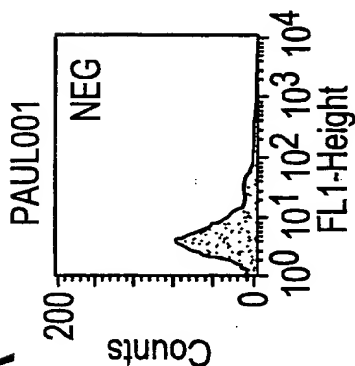


FIG. 5D

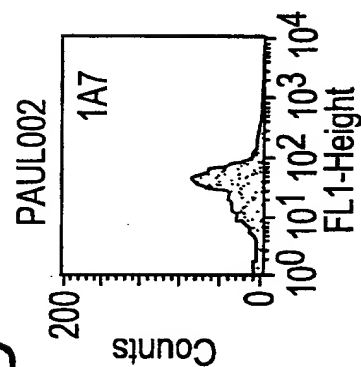


FIG. 5G

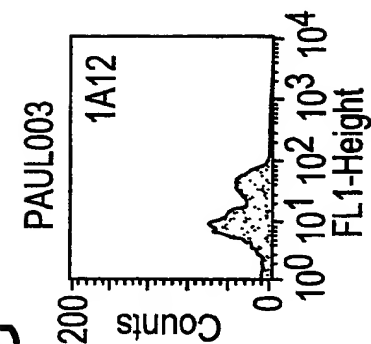


FIG. 5B

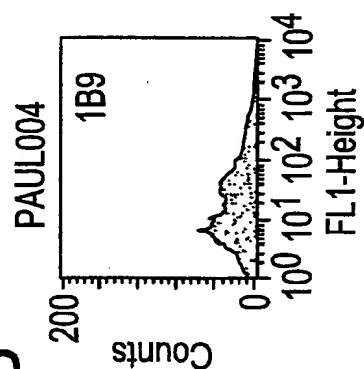


FIG. 5E

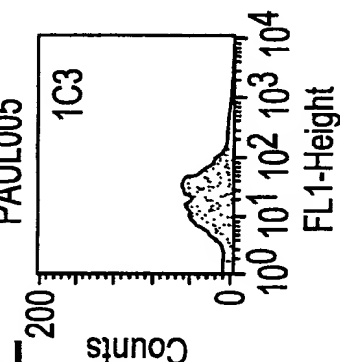


FIG. 5H

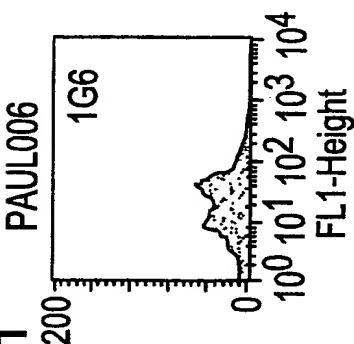


FIG. 5C

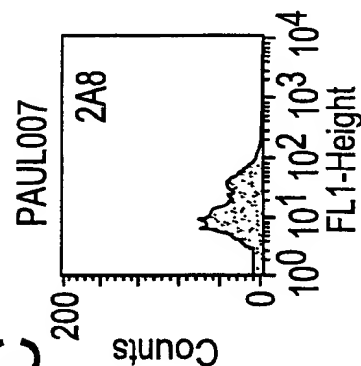


FIG. 5F

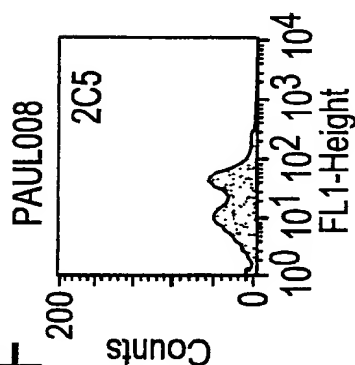


FIG. 5I

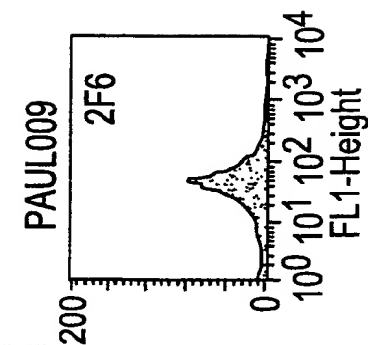


FIG. 6

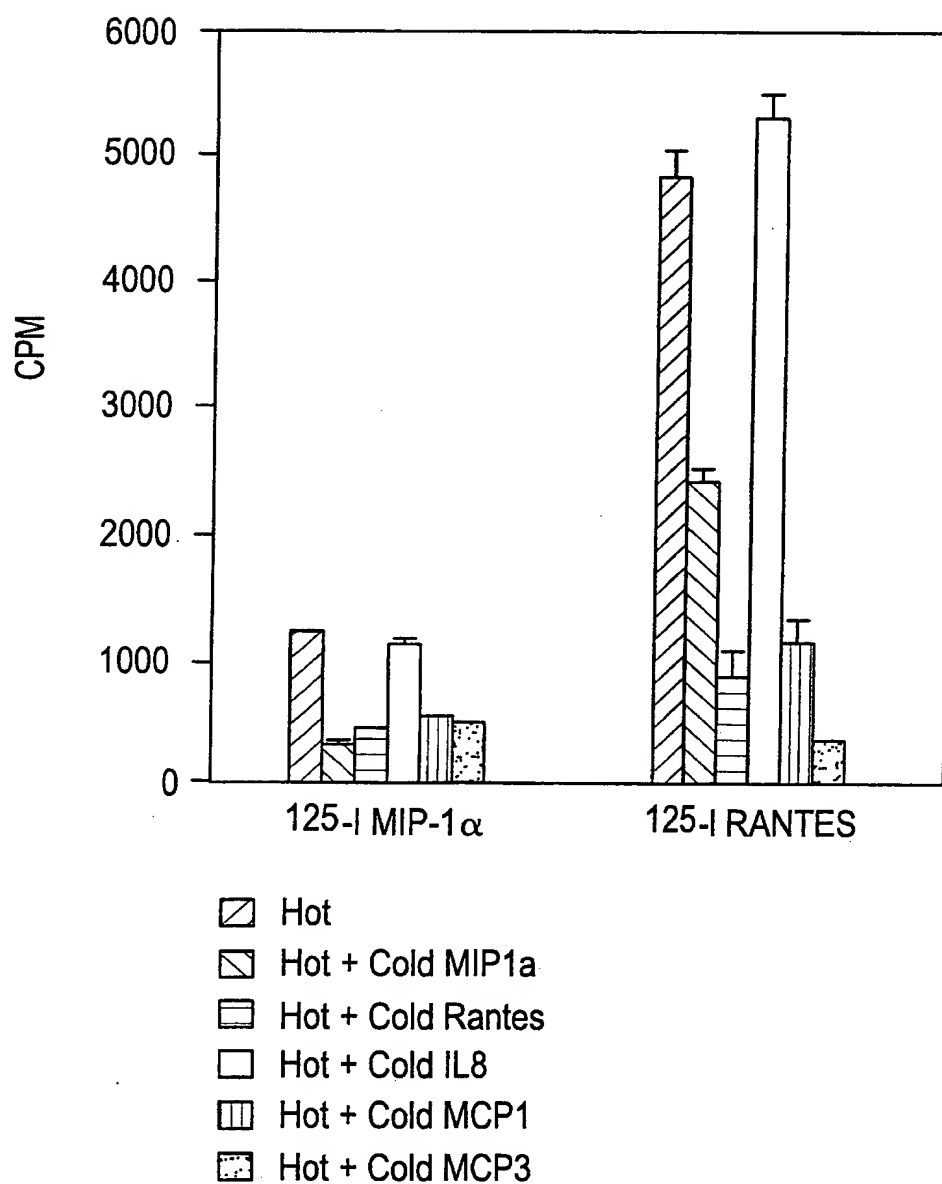


FIG. 7

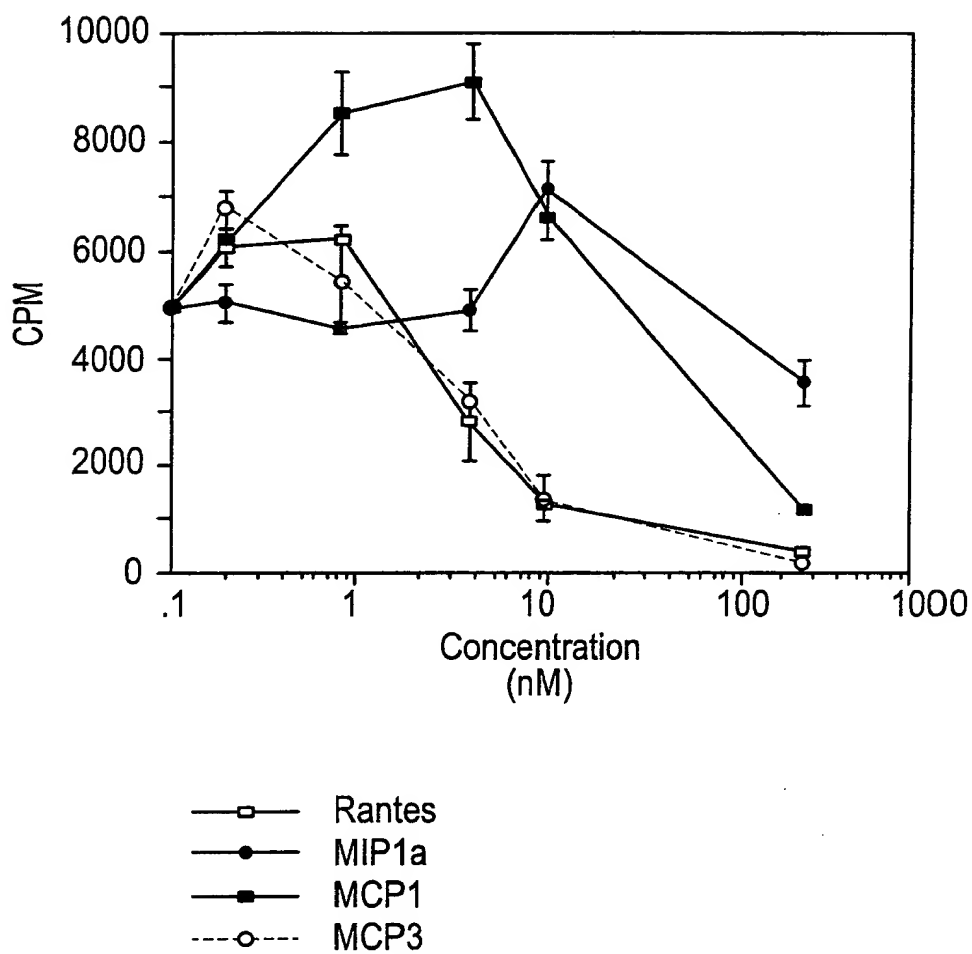


FIG. 8

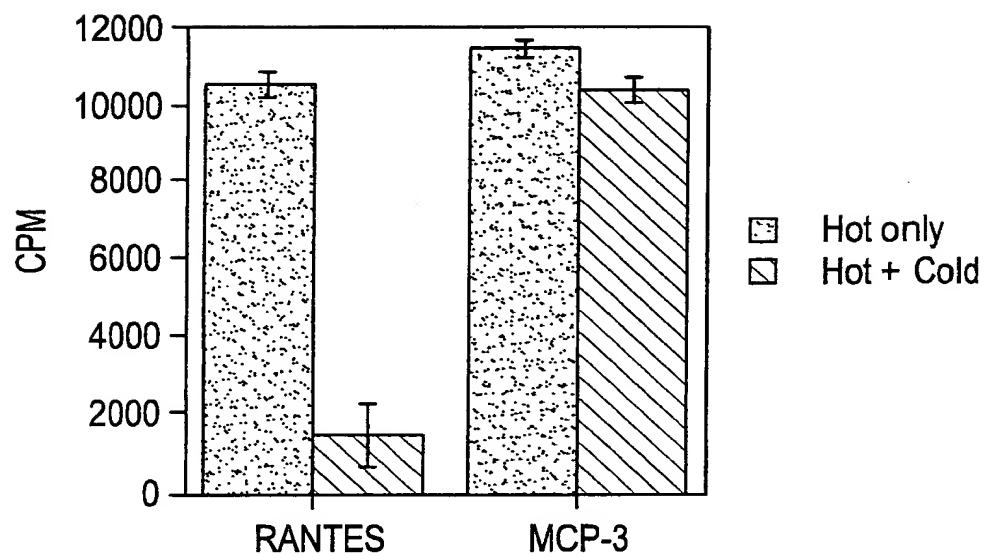


FIG. 9A

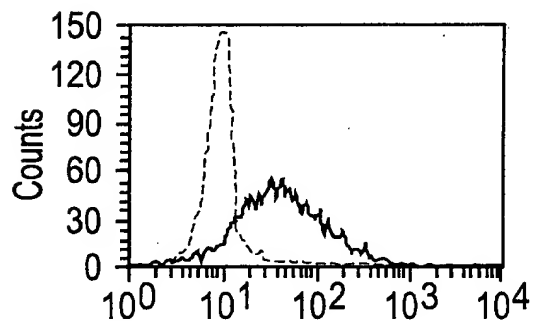


FIG. 9B

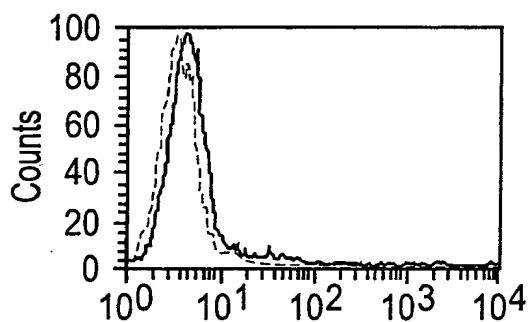


FIG. 9C

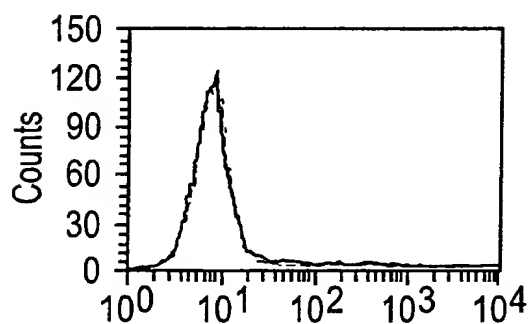
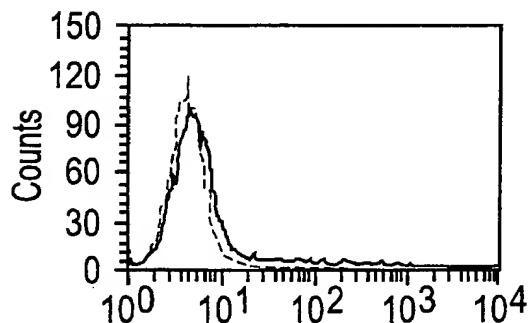


FIG. 9D



Fluorescence intensity →

FIG. 10A

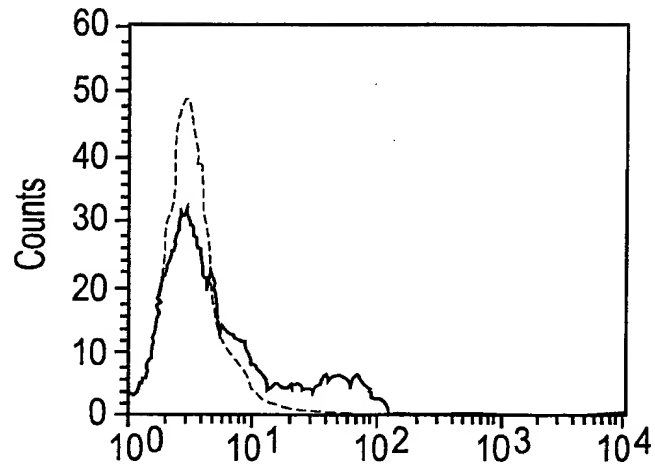


FIG. 10B

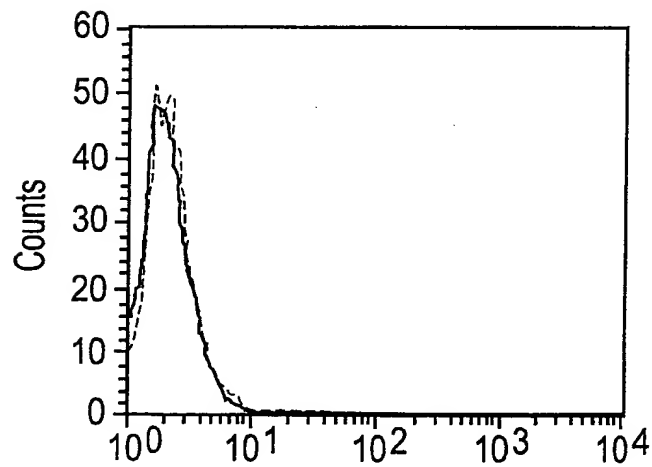


FIG. 10C

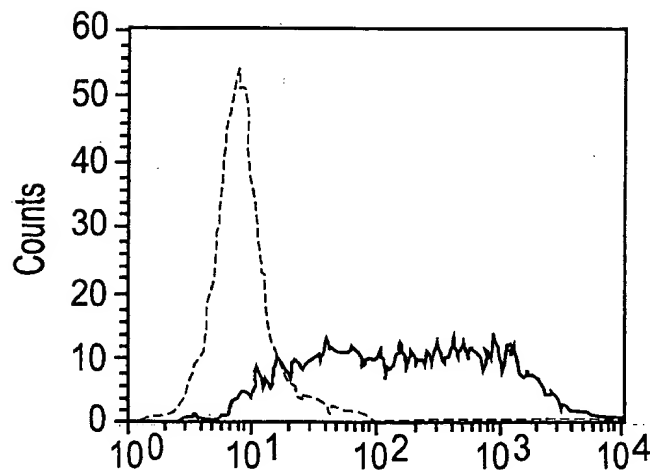


FIG. 11A

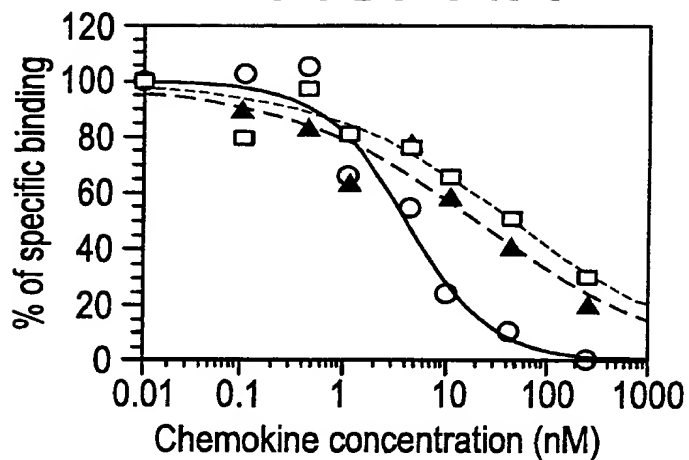


FIG. 11B

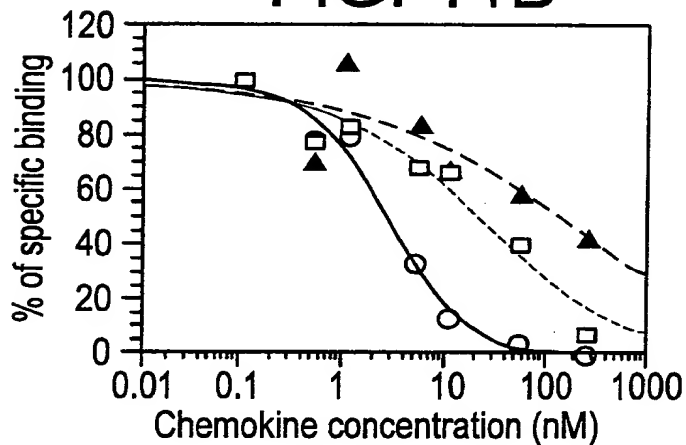


FIG. 11C

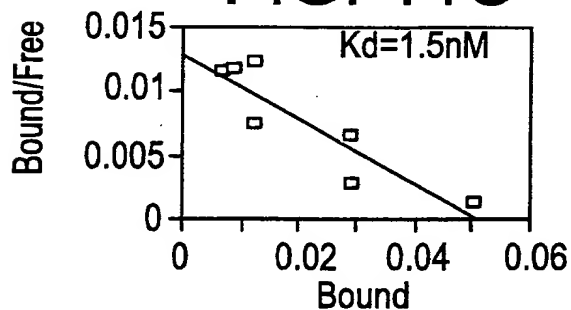


FIG. 11D

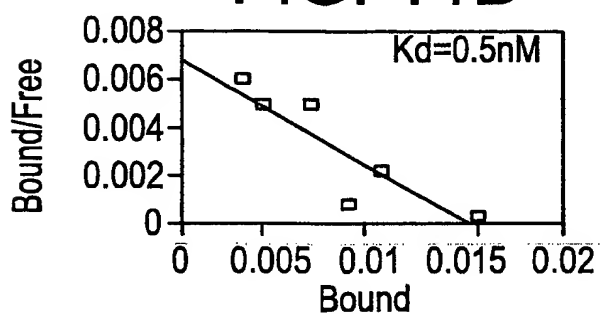


FIG. 12

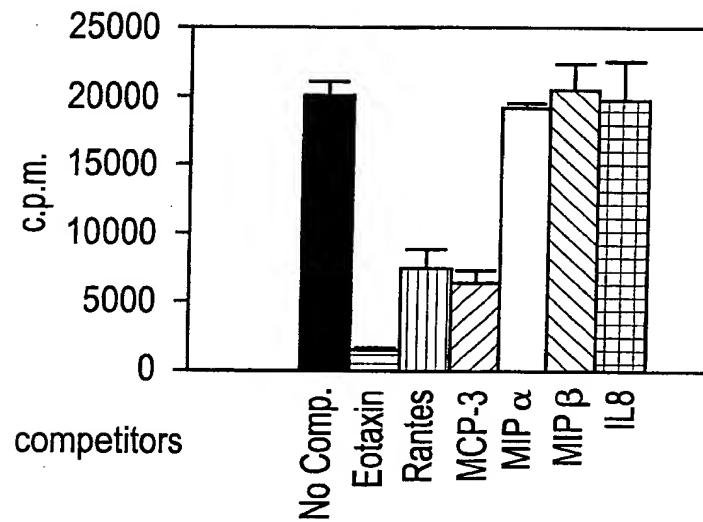


FIG. 13A

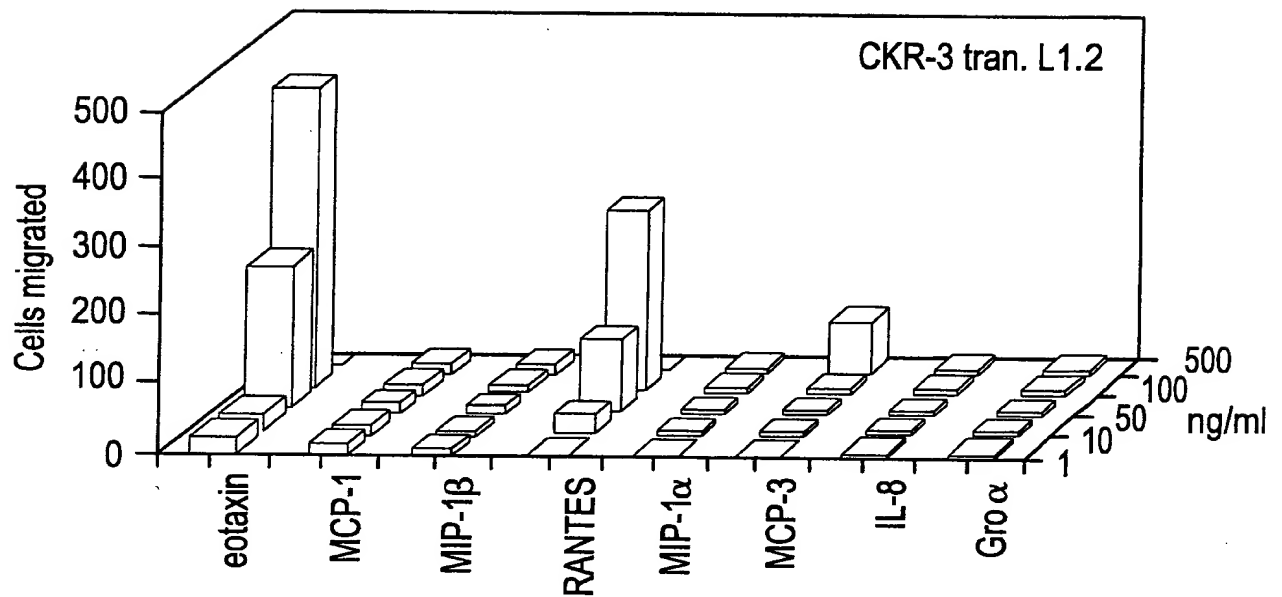


FIG. 13B

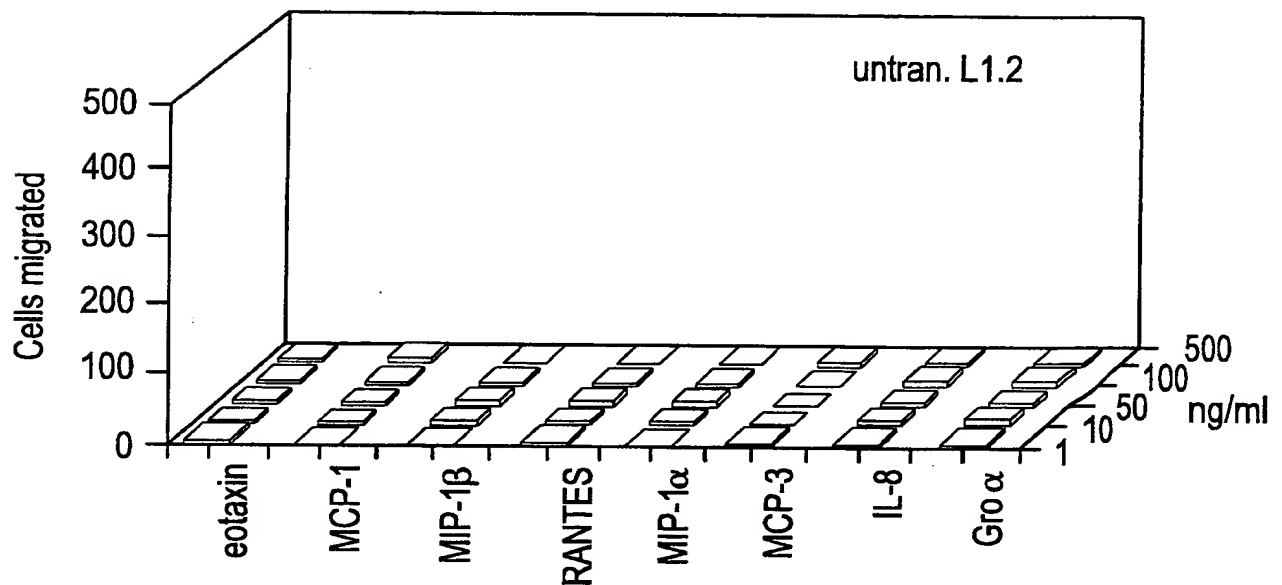


FIG. 13C

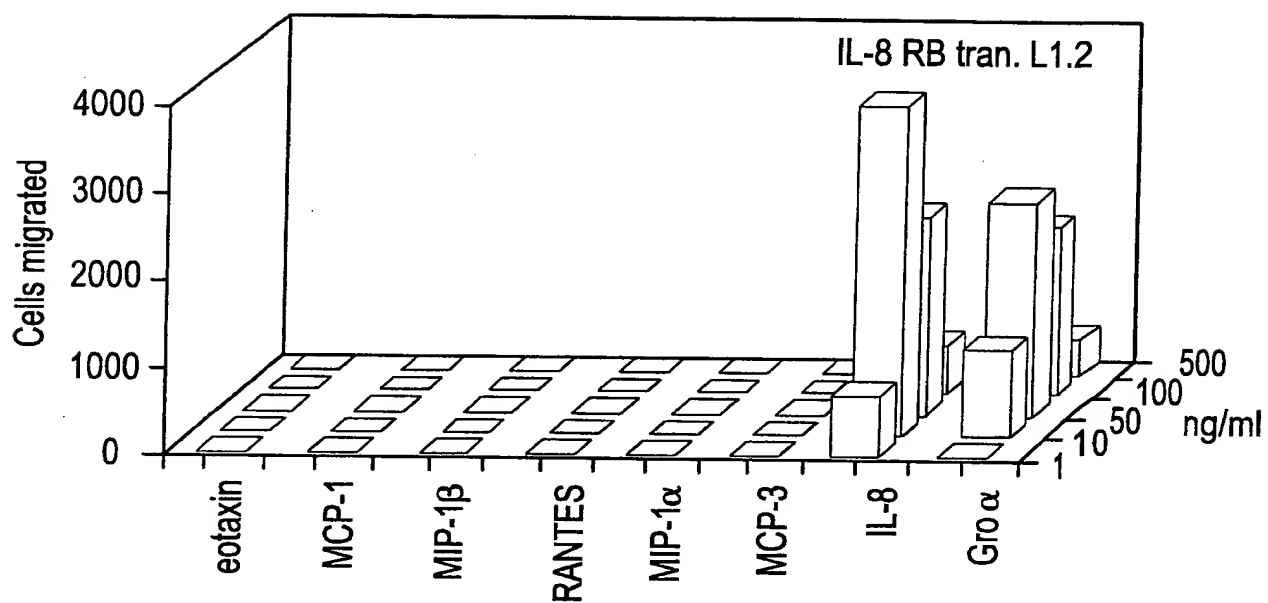


FIG. 14A

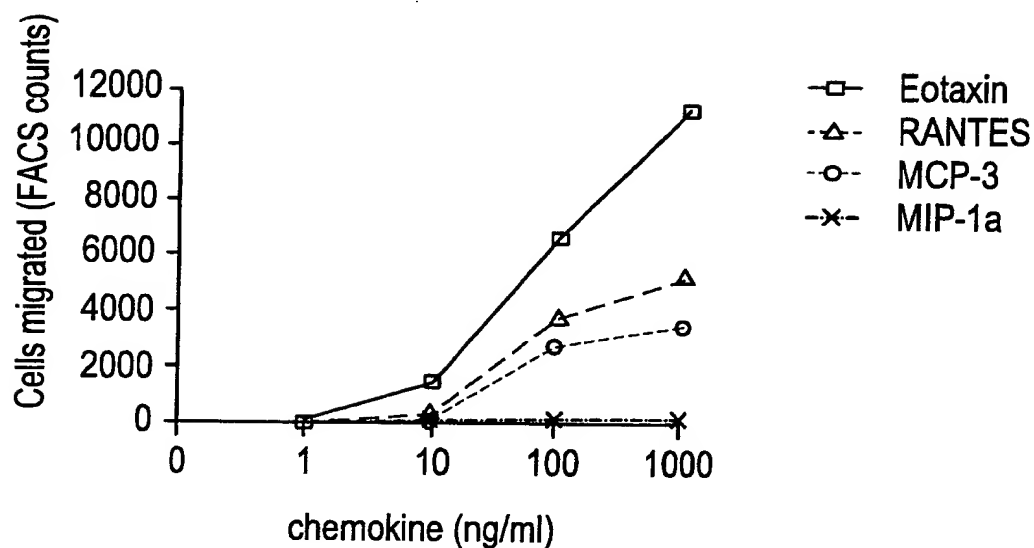
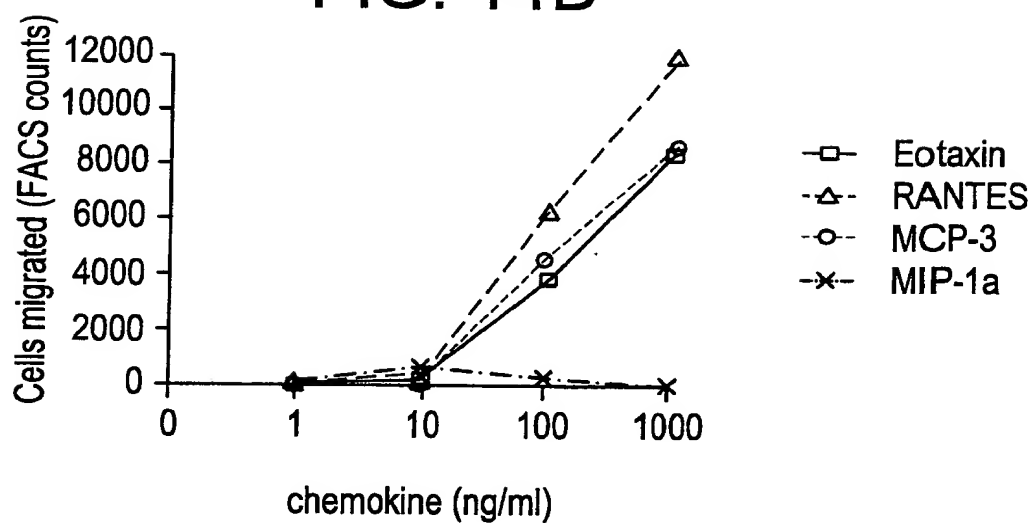


FIG. 14B



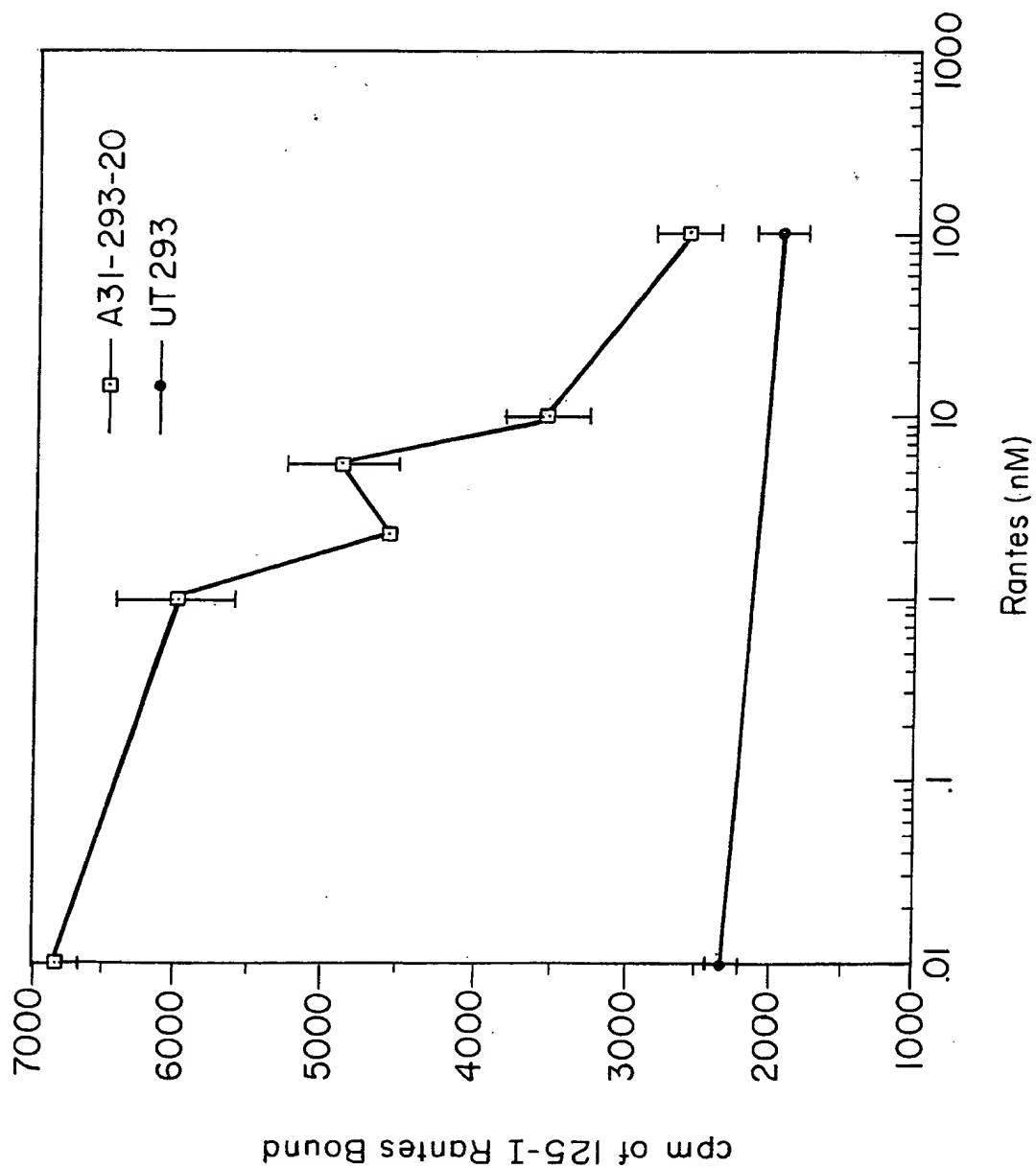


FIGURE 15

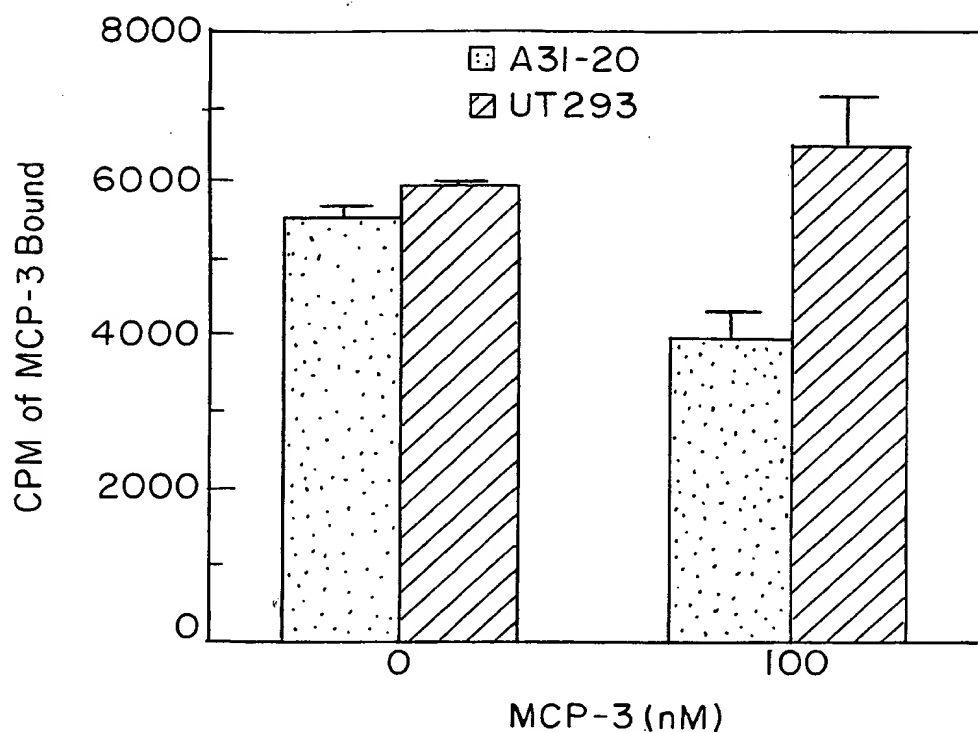


FIGURE 16

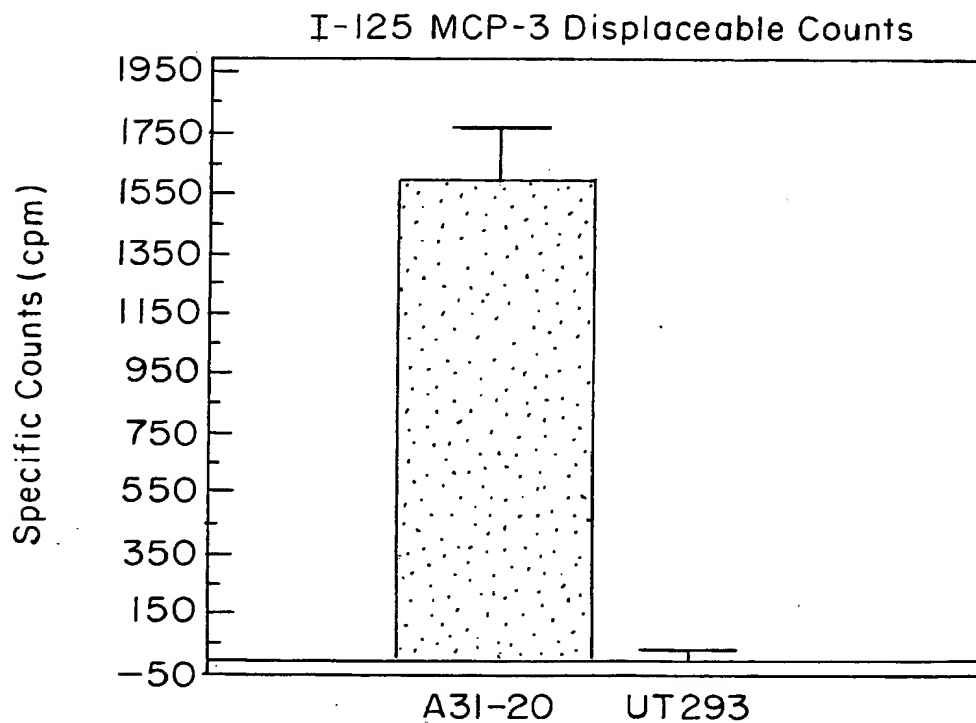


FIGURE 17

FIG. 18A

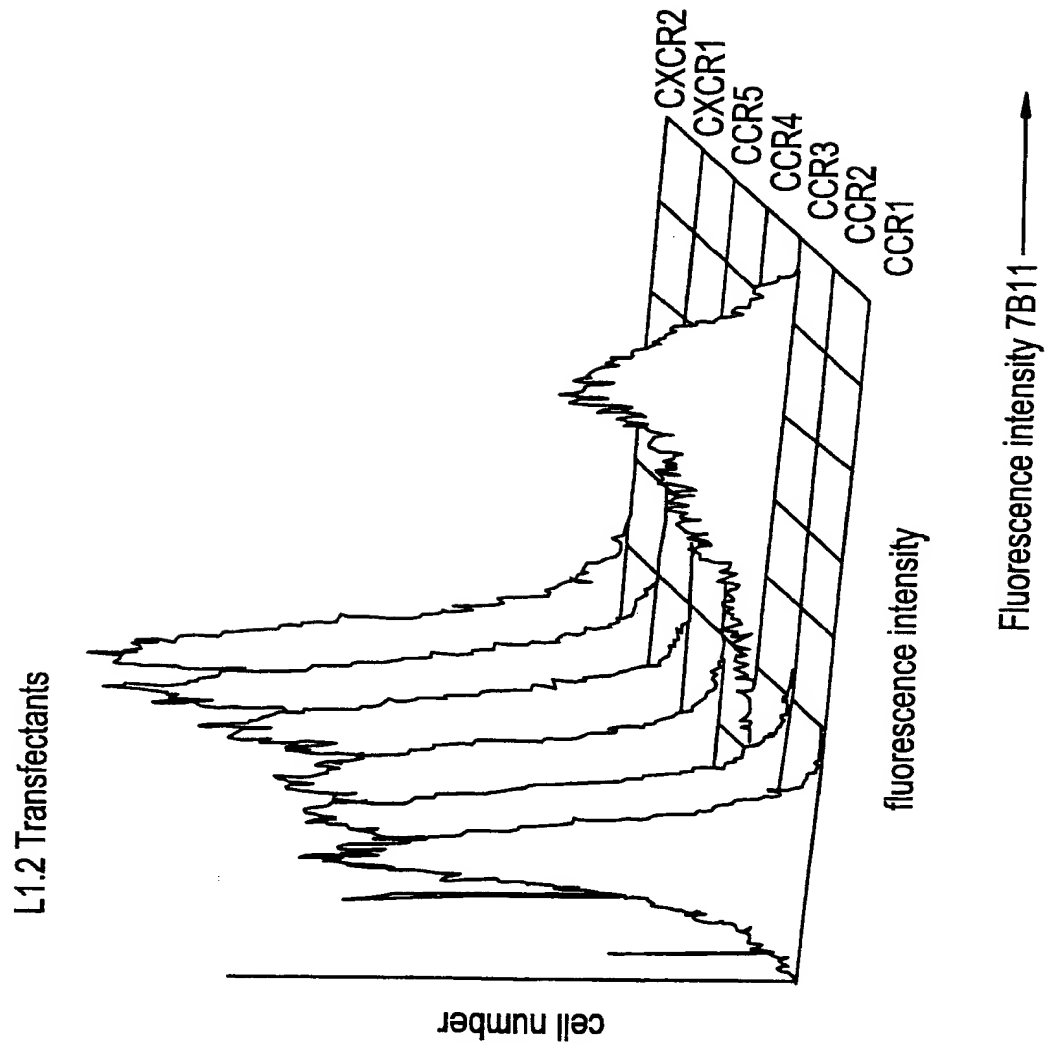
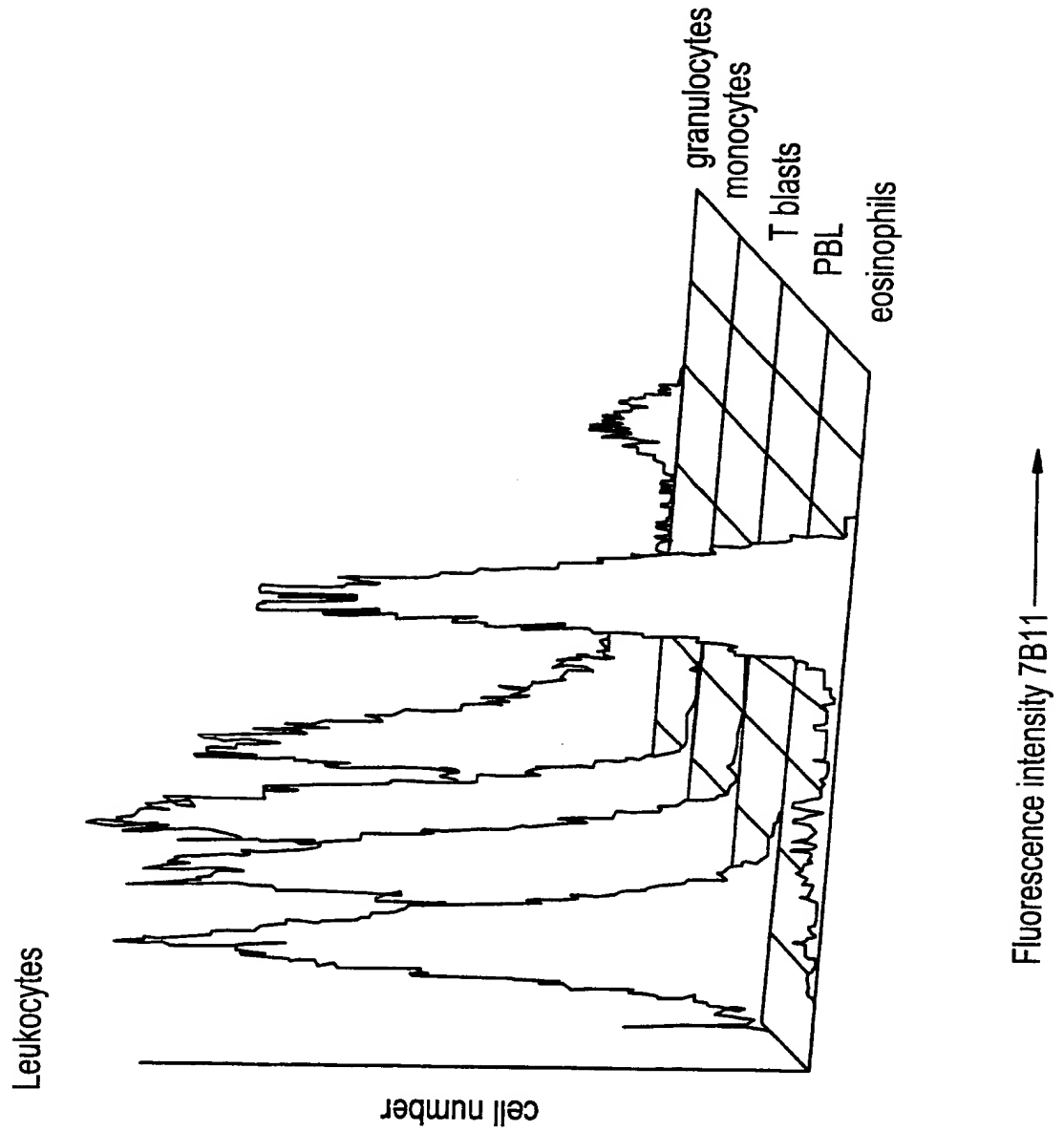


FIG. 18B



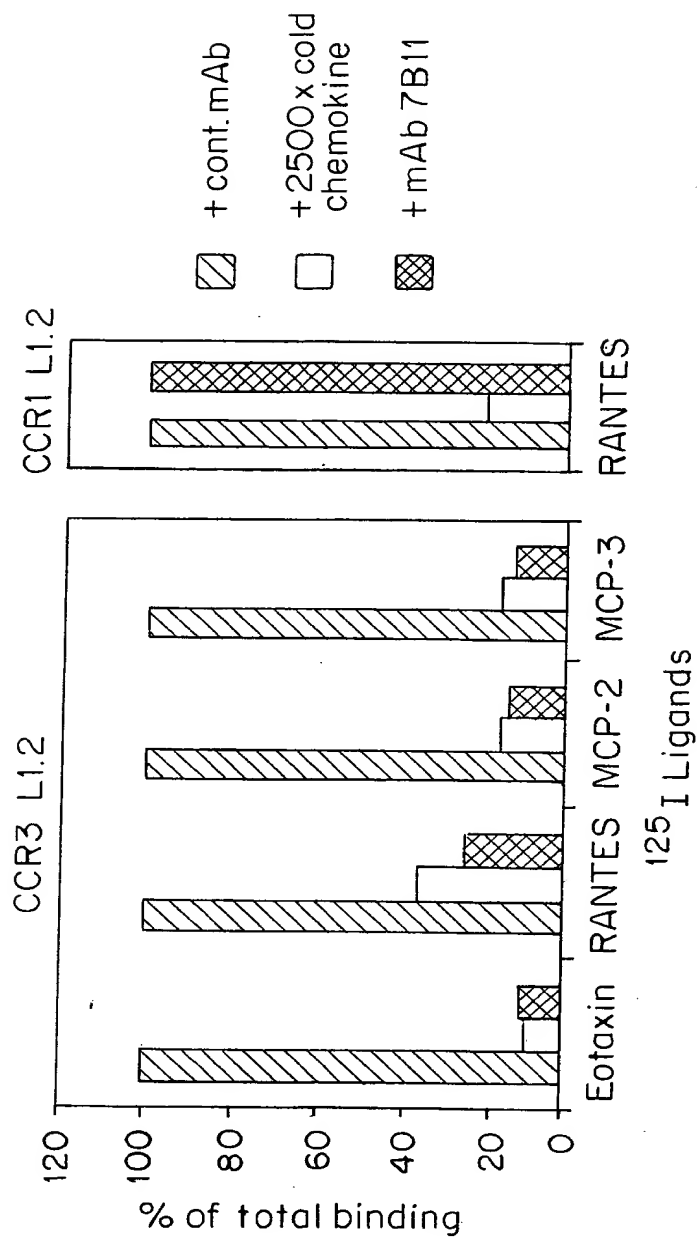


FIG. 18C

FIG. 19

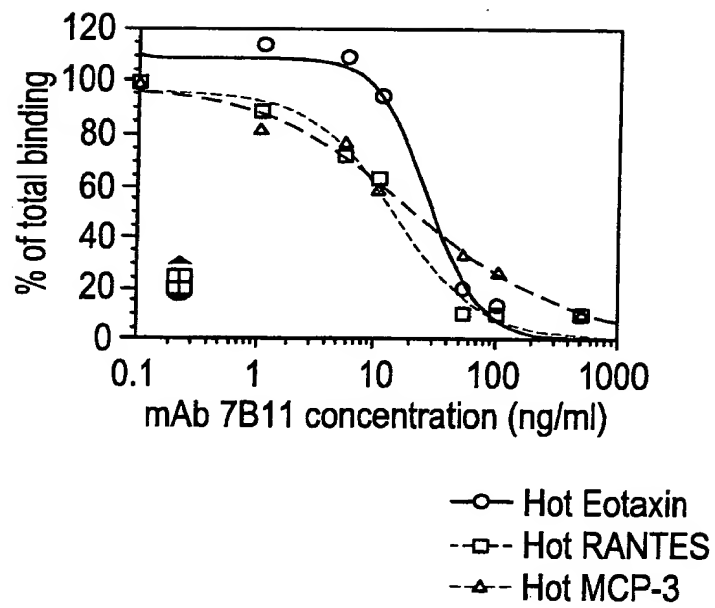


FIG. 20A

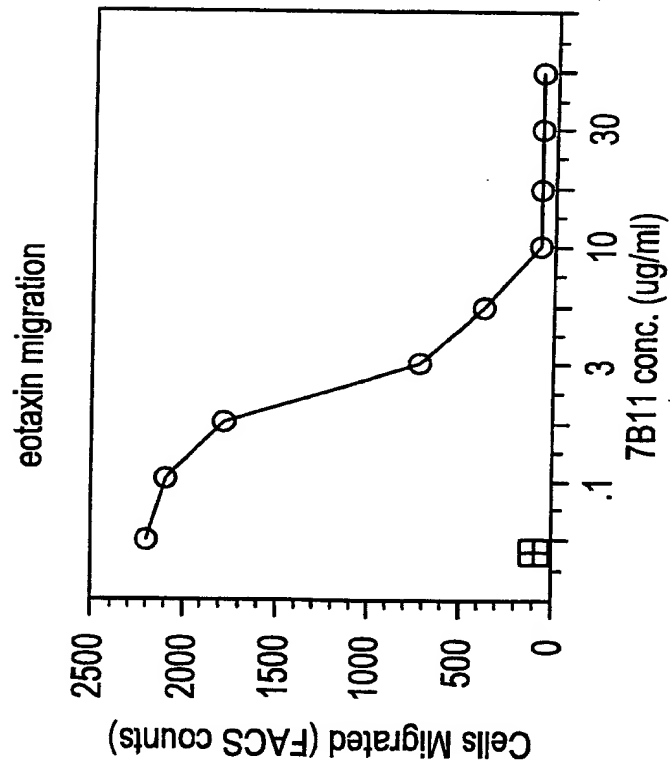
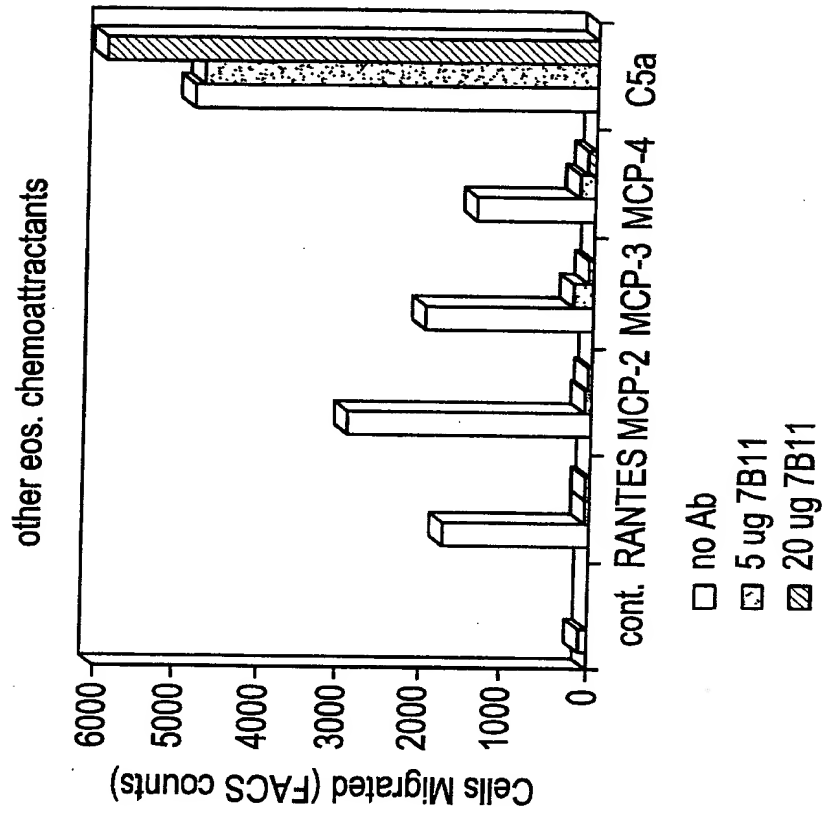


FIG. 20B



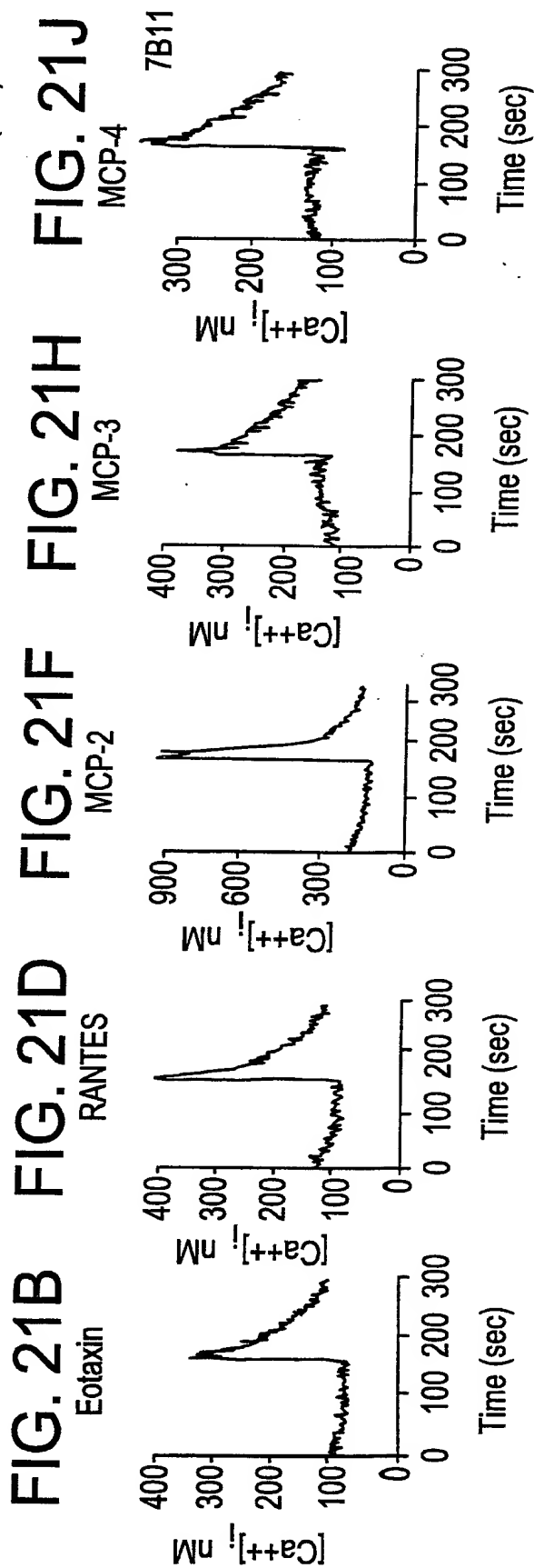
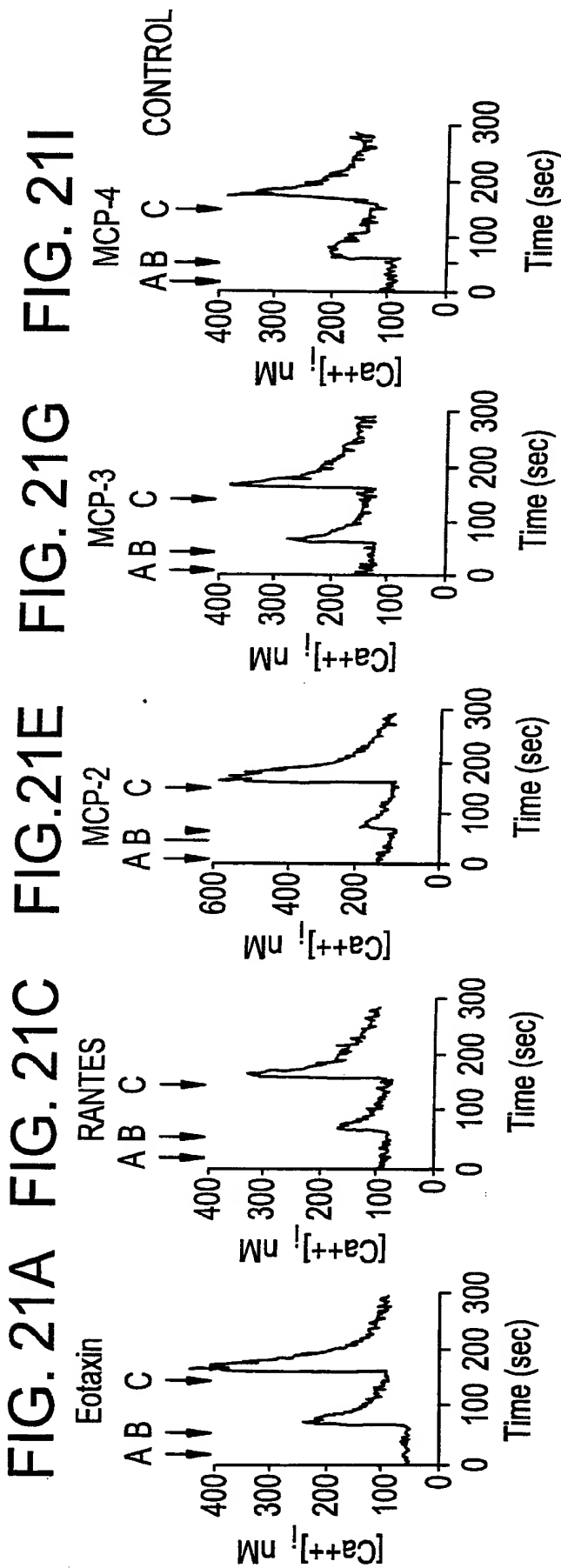


FIG. 22A

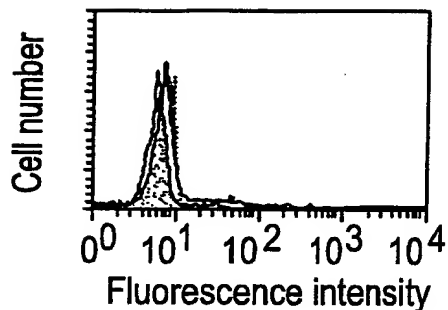


FIG. 22B

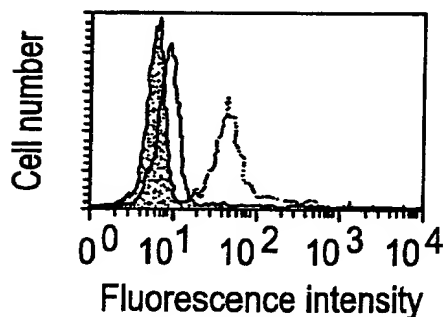


FIG. 22C

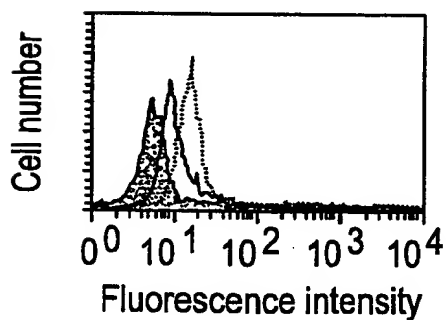
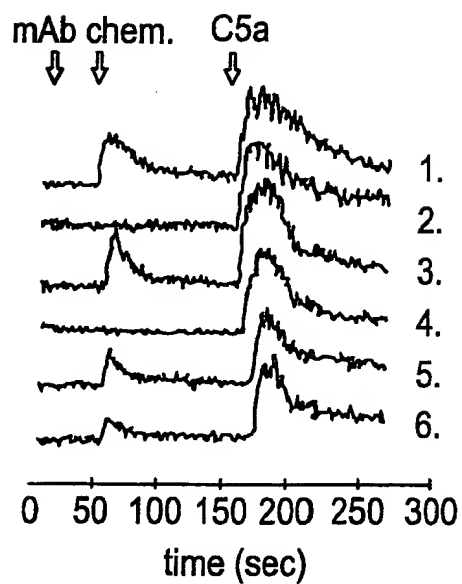


FIG. 22D



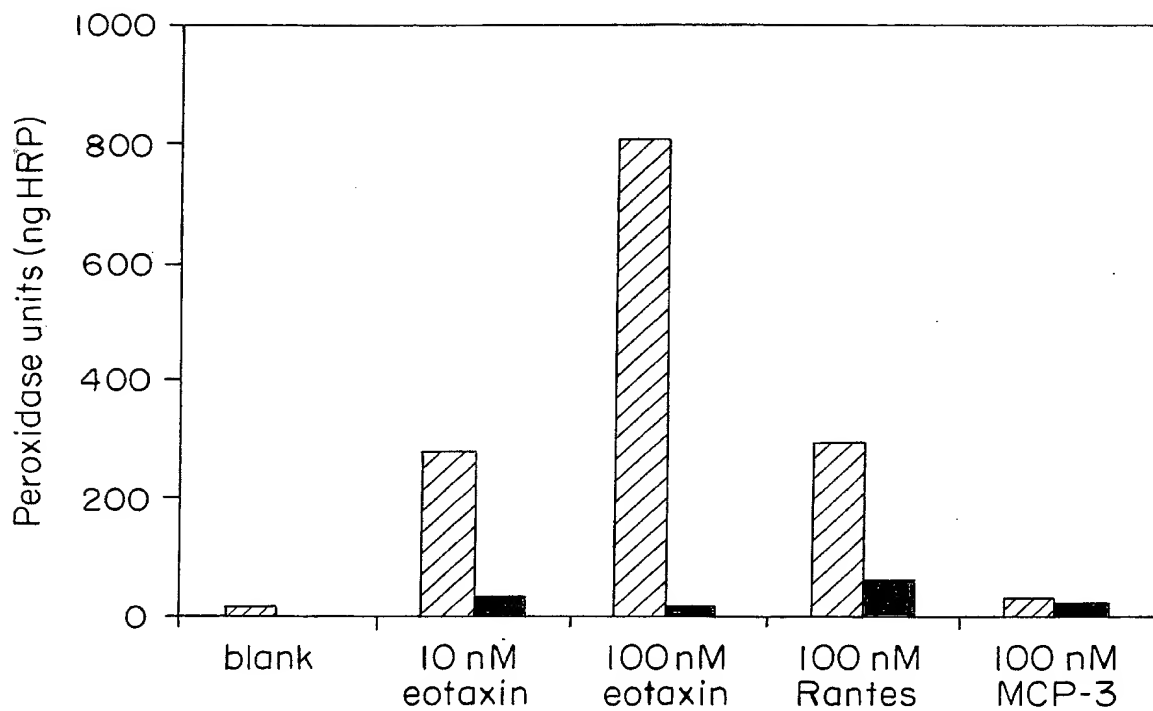


FIG. 23A

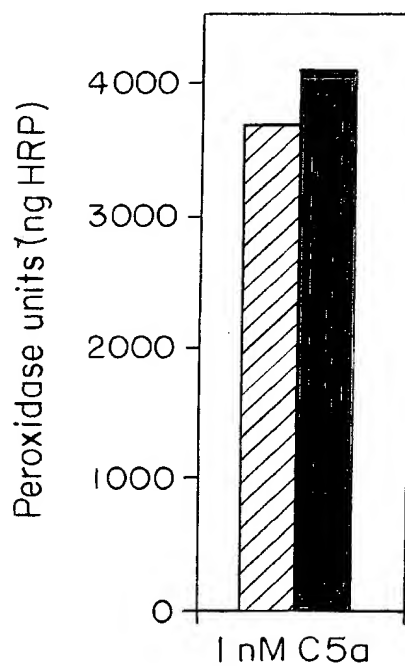


FIG. 23B

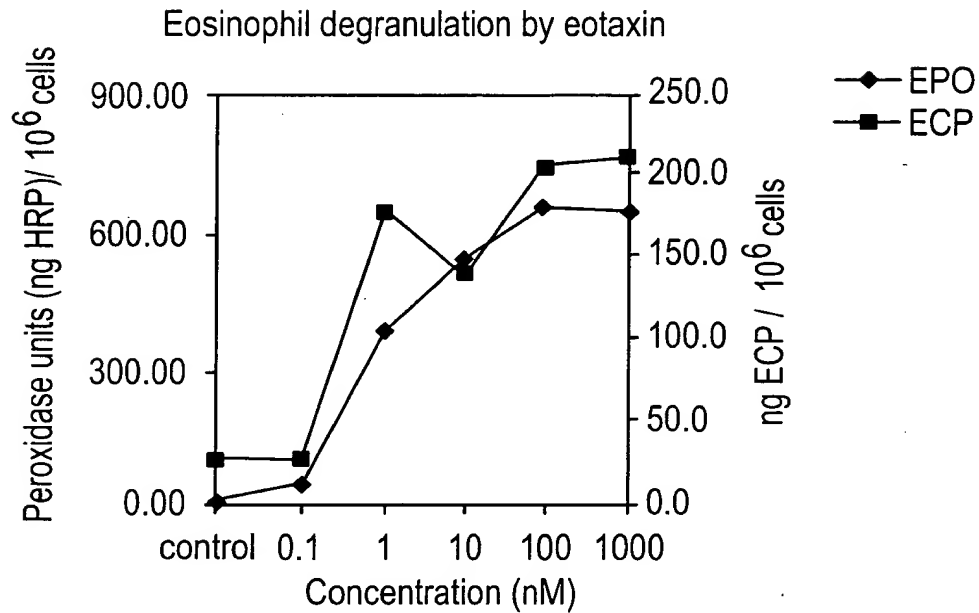


FIG. 24A

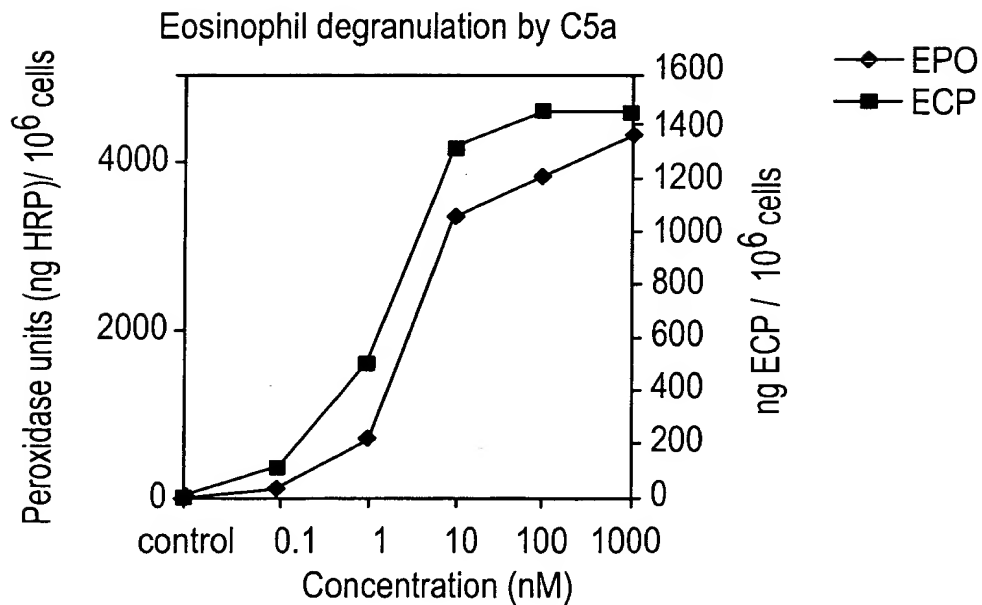


FIG. 24B

Stimulation of peroxidase release
from eosinophils by eotaxin

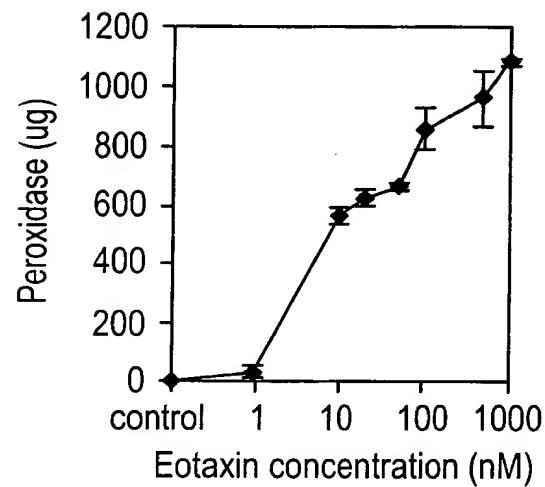


FIG. 25

Glucuronidase release from
eosinophils by eotaxin

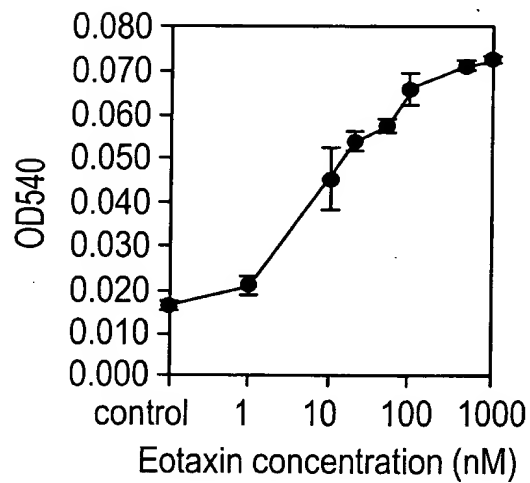


FIG. 26

Stimulation of arylsulfatase B
release from human eosinophils by
eotaxin

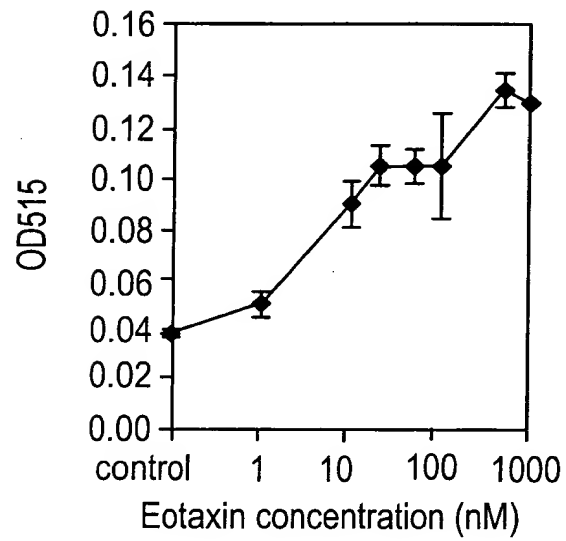


FIG. 27

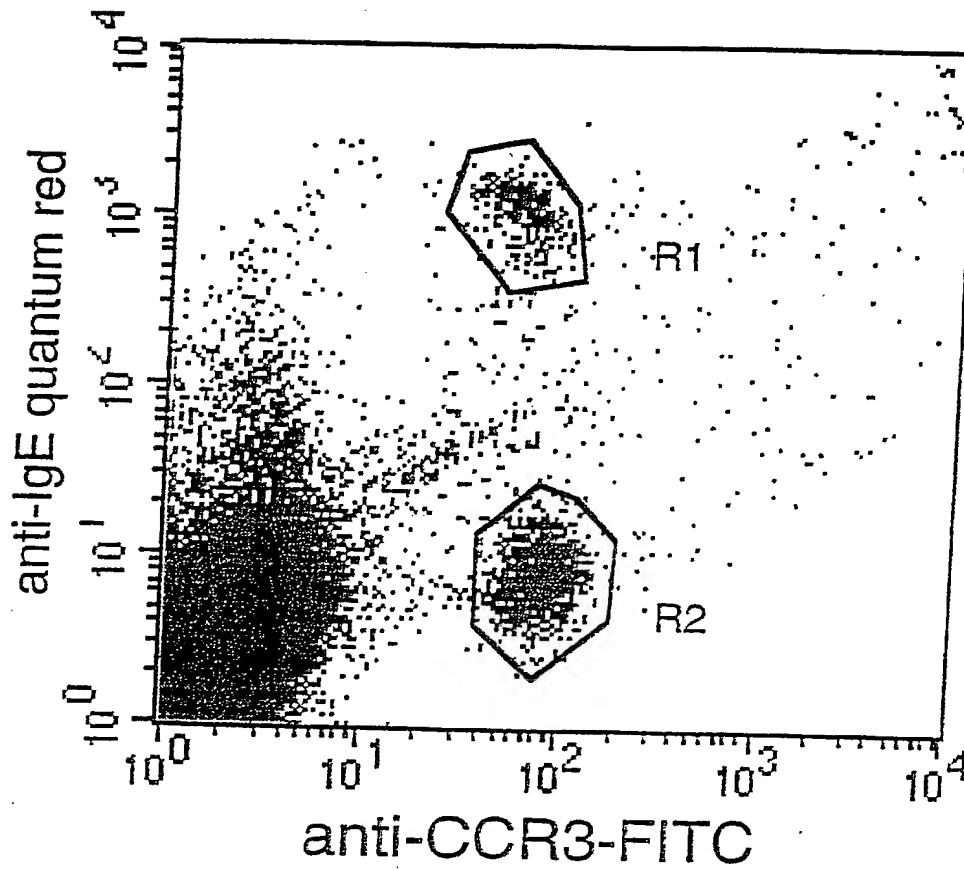


FIGURE 28

FIG. 29

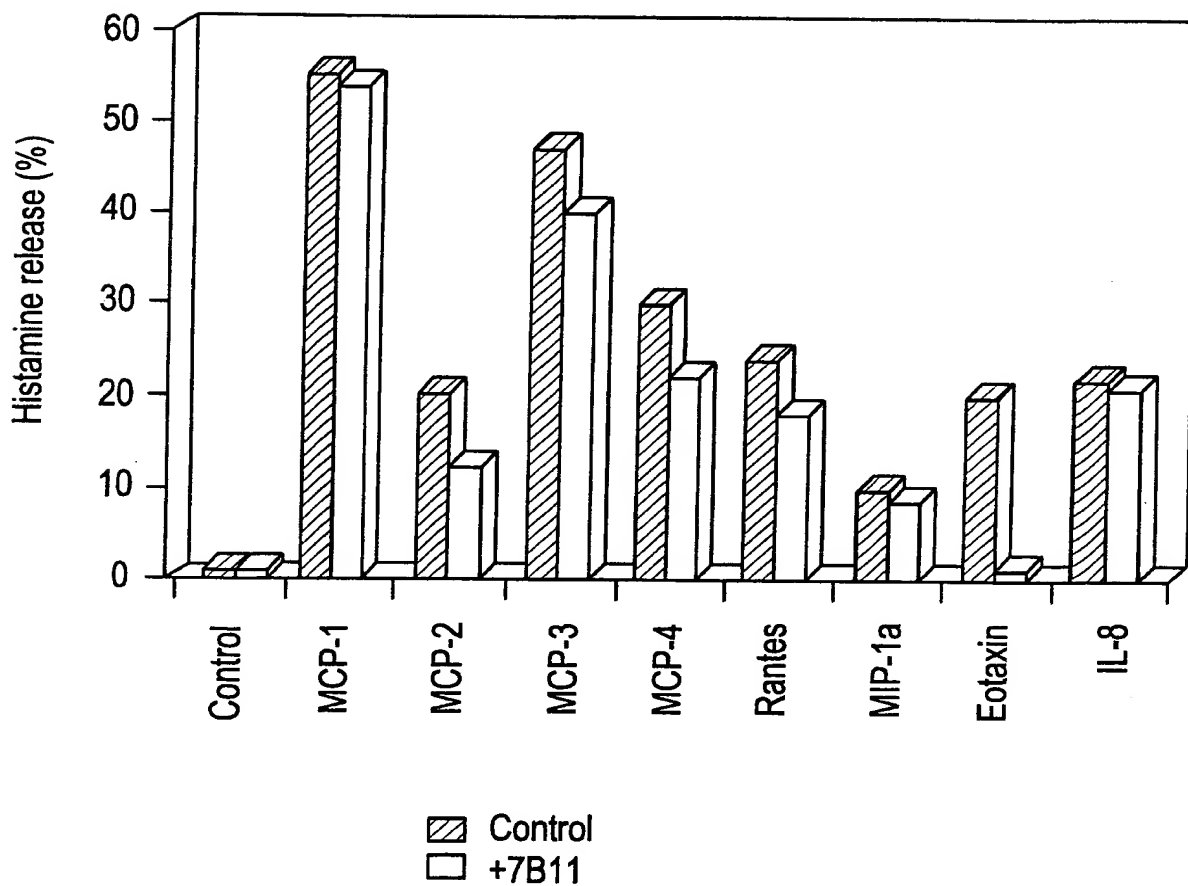


FIG. 30A

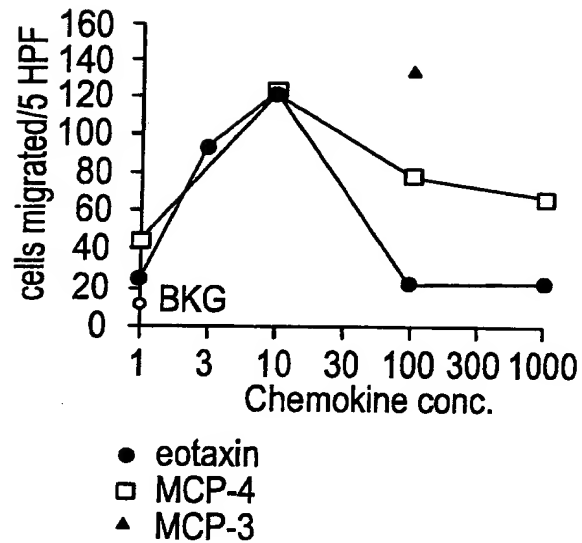


FIG. 30B

